| Fresno General Plan Update Scenario | s - CONFIDEN | ITIAL DRAFT | | | | | | | | | |
|-------------------------------------|--|--|--|-----------------------------|-----------------------------|--|--|--|--|--|--|
| 5-Apr-12 | | | | | | | | | | | |
| | Business as Usual (Calthorpe Backcast) | A. Revitalization, Infill, and Transit Corridors within SOI | B. Growth Area Development and Infill within SOI | C. Trend, Expands to SOI | D. Hybrid of A, B, and C | | | | | | |
| New growth housing unit mix | BAU | Α | В | С | D | | | | | | |
| Single Family Large Lot | 70% | 15% | 16% | 31% | 24% | | | | | | |
| Single Family Small Lot | 10% | 24% | 23% | 21% | 22% | | | | | | |
| Townhome | 7% | 20% | 19% | 15% | 17% | | | | | | |
| Multifamily | 12% | 41% | 42% | 33% | 38% | | | | | | |
| | | | | | | | | | | | |
| New growth housing units | | | | | | | | | | | |
| Single Family Large Lot | 55,555 | 11,845 | 12,898 | 24,354 | 18,910 | | | | | | |
| Single Family Small Lot | 7,863 | 18,650 | 18,488 | 16,469 | 17,104 | | | | | | |
| Townhome | 5,860 | 15,924 | 14,650 | 11,892 | 13,302 | | | | | | |
| Multifamily | 9,722 | 32,581 | 32,965 | 26,286 | 29,685 | | | | | | |

| Fresno General Plan Update Scenarios - CONFIDENTIAL DRAFT | | | | | | | | | | | | | | | |
|---|--|---------------------------------|--------------------------------|---------------------------------|---|---------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|----------------------------|---|---|--|
| | 5-Apr-12 | | | | | | | | | | | | | | |
| | 2035 Annual Results A. Revitalization, Infill, and Transit Corridors within SO Result Diff from Alt C | | | | owth Area Development and Infill within SOI | | C. Trend, Expands to SOI | | D. Hybrid of A, B, and C | | E. BIA Scenario | | EQUIVALENCIES Alt A compared to Alt C | EQUIVALENCIES Alt A compared to Alt E | |
| | | | Diff from Alt C | Result | Diff from Alt C | Result | Diff from Alt C | Result Diff from Alt C | | Result | Diff from Alt A | Diff from Alt C | (Same assumptions used for all scenarios) | (Same assumptions used for all scenarios) | |
| R S | SCENARIO | | Α | | В | | С | | D | | E | | | | |
| | End-State Total Population, 2035 | 734,533 | | 734,533 | | 734,533 | | 734,533 | | 734,533 | | | | | |
| | End-State Total Households, 2035 | 239,763 | | 239,763 | | 239,763 | | 239,763 | | 239,763 | | | | | |
| | Total Greenhouse Gas (GHG) Emissions | 2.17 MMT | -0.19 MMT | 2.22 MMT | -0.14 MMT | 2.36 MMT | 0.00 MMT | 2.23 MMT | -0.13 MMT | 2.41 MMT | 0.24 MMT | 0.05 MMT | GREENHOUSE GAS EMISSIONS | GREENHOUSE GAS EMISSIONS | |
| | Total Emissions (Transportation Combustion and Buildings) (MMT) ICE Fuel Combustion Emissions (MMT) | 0.96 MMT | -0.19 MMT | 1.01 MMT | -0.14 MMT | 1.12 MMT | 0.00 MMT | 1.01 MMT | -0.13 MMT | 1.13 MMT | 0.24 MMT | 0.05 MMT | Reduces total annual GHGs by the same amount sequestered by 78,000 acres of trees or 5 million tree seedlings grown for 10 years. | Reduces total annual GHGs by the same amount sequestered by 98,000 acres of trees or 6.2 million tree seedlings grown for 10 years. | |
| | Building Emissions (Residential and Commercial) | 1.21 MMT | -0.03 MMT | 1.21 MMT | -0.03 MMT | 1.24 MMT | 0.00 MMT | 1.22 MMT | -0.02 MMT | 1.28 MMT | 0.07 MMT | 0.04 MMT | dees of 5 minor dee securings grown for 10 years. | areas of 6.2 minori area securings grown for 10 years. | |
| | Household Costs | | | | | | | | | | | | HOUSEHOLD COSTS | HOUSEHOLD COSTS | |
| Z | Fuel and auto, energy, and water costs (2011\$) | \$11,520 | -\$1,482 | \$11,997 | -\$1,005 | \$13,002 | | \$12,007 | -\$995 | \$13,143 | \$1,624 | \$142 | \$1,480 savings per household, per year in auto and utility costs. | \$1,620 savings per household, per year in auto and utility costs. | |
| | Household fuel and auto costs (2011\$) Household energy and water costs (2011\$) | \$8,132 \$3,387 | -\$1,381 -\$102 | \$8,614 \$3,383 | -\$899 -\$106 | \$9,513 \$3.489 | | \$8,570 \$3,437 | -\$943 -\$52 | \$9,607 \$3,536 | \$1,475 \$149 | \$94 \$47 | | | |
| | Land Consumption | 33,367 | -3102 | 33,363 | -3100 | 33,463 | 30 | 33,437 | -332 | 33,330 | 3143 | 347 | LAND CONSUMPTION | LAND CONSUMPTION | |
| | Greenfield Land Consumed, Gross (sq mi) | 21.7 sq mi | -9.9 sq mi | 25.1 sq mi | -6.6 sq mi | 31.7 sq mi | | 25.7 sq mi | -6.0 sq mi | 34.2 sq mi | 12.4 sq mi | 2.5 sq mi | Nearly 10 square miles of land saved. | 12.4 square miles of land saved. | |
| | Greenfield Land Consumed, Gross (ac) | 13,909 ac | -6,354 ac | 16,055 ac | -4,207 ac | 20,263 ac | ac | 16,435 ac | -3,828 ac | 21,860 ac | 7,951 ac | 1,597 ac | | | |
| CONF | Transportation | | | | | | | | | | | | TRANSPORTATION | TRANSPORTATION | |
| | VMT (miles) | 3.01 B mi | -0.51 B mi | 3.19 B mi | -0.33 B mi | 3.52 B mi | | 3.17 B mi | -0.35 B mi | 3.56 B mi | 0.55 B mi | 0.03 B mi | Over 40,000 cars off Fresno's roads. | Nearly 44,000 cars off Fresno's roads. | |
| | VMT per HH | 12,562 mi 4,100 mi | -2,133 mi -696 mi | 13,306 mi 4,343 mi | -1,389 mi - 453 mi | 14,695 mi 4,797 mi | mi mi | 13,238 mi 4,321 mi | -1,457 mi - 475 mi | 14,840 mi 4,844 mi | 2,278 mi 744 mi | 146 mi 48 mi | | | |
| | VMT per Capita Fuel Consumed (gal) | 121.7 M gal | -696 mi -20.7 M gal | 128.9 M gal | -453 mi -13.5 M gal | 4,797 mi 142.4 M gal | 0.0 M gal | 128.3 M gal | -475 mi -14.1 M gal | 143.8 M gal | 22.1 M gal | 1.4 M gal | 21 million gallons less fuel consumed in 2035 over 2,400 tanker trucks' worth of | 22 million gallons less fuel consumed in 2035 nearly 2,600 tanker trucks' worth of | |
| | Fuel Cost (2011\$) | \$0.97 B | -\$165 M | \$1.03 B | -\$108 M | \$1.14 B | \$0 M | \$1.03 B | -\$113 M | \$1.15 B | \$177 M | \$11 M | gas, or over a million barrels of oil. | gas, or over 1.1 million barrels of oil. | |
| | Auto Ownership, Maintenance, and Additional Costs (2011\$) | \$0.98 B | -\$166 M | \$1.03 B | -\$108 M | \$1.14 B | \$0 M | \$1.03 B | -\$113 M | \$1.15 B | \$177 M | \$11 M | | | |
| | ICE Fuel Combustion Emissions (MMT) | 0.96 MMT | -0.16 MMT -487 lbs | 1.01 MMT | -0.11 MMT | 1.12 MMT | 0.00 MMT | 1.01 MMT | -0.11 MMT | 1.13 MMT | 0.17 MMT | 0.01 MMT | | | |
| | ICE Fuel Combustion Emissions per Capita (lbs) Criteria Pollutant Emissions (tons) | 2,871 lbs 3,717 tons | -487 lbs -631 tons | 3,041 lbs 3,937 tons | -317 lbs -411 tons | 3,358 lbs 4,347 tons | | 3,025 lbs 3,917 tons | -333 lbs -431 tons | 3,392 lbs 4,391 tons | 521 lbs 674 tons | 33 lbs 43 tons | | | |
| | Public Health | 3,717 tons | 031 (0113 | 3,337 tons | 411 (0113 | 4,547 tolis | LOTIS | 3,517 tons | 431 (0113 | 4,551 tons | 074 (0113 | 45 (01)3 | HEALTH IMPACTS | HEALTH IMPACTS | |
| | Annual Health Incidences | 5,090 | -864 | 5,391 | -563 | 5,954 | | 5,364 | -590 | 6,013 | 923 | 59 | \$13.8 million less in healthcare spending for air pollution-related illnesses in 2035. | \$14.7 million less in healthcare spending for air pollution-related illnesses in 2035. | |
| | Annual Health Costs (2011\$) | \$81,251,611 | -\$13,793,110 | \$86,061,987 | -\$8,982,734 | \$95,044,721 | \$0 | \$85,624,000 | -\$9,420,721 | \$95,988,034 | \$14,736,423 | \$943,313 | | | |
| | Building Energy | | | | | | | | | | | | ENERGY | ENERGY | |
| | Residential Electricity Consumed (kWh) | 1,578 GWh | -54 GWh | 1,576 GWh | -57 GWh | 1,633 GWh | | 1,605 GWh | -28 GWh | 1,658 GWh | 79 GWh | 25 GWh | | | |
| | Residential Natural Gas Consumed (therms) Residential Energy Consumed (Btu) | 83,402,521 thm 13.7 tril Btu | -1,280,799 thm -313 bil Btu | 83,354,420 thm 13.7 tril Btu | -1,328,900 thm -326 bil Btu | 84,683,320 thm 14.0 tril Btu | | 84,044,368 thm 13.9 tril Btu | -638,952 thm -159 bil Btu | 85,279,833 thm 14.2 tril Btu | 1,877,312 thm 459 bil Btu | 596,513 thm 146 bil Btu | Enough energy saved annually to power over 9,000 homes. | Enough energy saved annually to power 11,700 homes. | |
| | Commercial Energy Consumed (Btu) | 7.8 tril Btu | -219 bil Btu | 7.9 tril Btu | -210 bil Btu | 8.1 tril Btu | | 7.8 tril Btu | -221 bil Btu | 8.1 tril Btu | 226 bil Btu | 6 bil Btu | Enough energy saved difficulty to power over 5,000 flories. | Enough energy saved annually to power 11,700 homes. | |
| | Total Energy Consumed (Btu) | 21.6 tril Btu | -532 bil Btu | 21.6 tril Btu | -536 bil Btu | 22.1 tril Btu | | 21.7 tril Btu | -381 bil Btu | 22.3 tril Btu | 685 bil Btu | 152 bil Btu | | | |
| | Residential Building Emissions (MMT) | 0.76 MMT | -0.02 MMT | 0.76 MMT | -0.02 MMT | 0.78 MMT | 0.00 MMT | 0.77 MMT | -0.01 MMT | 0.79 MMT | 0.03 MMT | 0.01 MMT | | | |
| | Commercial Building Emissions (MMT) Residential Electricity per HH (kWh) | 0.45 MMT 6,583 kWh | -0.01 MMT -226 kWh | 0.45 MMT 6,573 kWh | -0.01 MMT -236 kWh | 0.46 MMT 6,809 kWh | 0.00 MMT 0 kWh | 0.45 MMT 6,693 kWh | -0.01 MMT -117 kWh | 0.46 MMT 6,915 kWh | 0.01 MMT 331 kWh | 0.00 MMT 105 kWh | | | |
| | Residential Natural Gas per HH (therms) | 348 thm | -5 thm | 348 thm | -6 thm | 353 thm | | 351 thm | -3 thm | 356 thm | 8 thm | 2 thm | | | |
| | Residential Energy Use per HH (Btu) | 90.0 mil Btu | -2.2 mil Btu | 90.0 mil Btu | -2.2 mil Btu | 92.2 mil Btu | | 90.6 mil Btu | -1.6 mil Btu | 92.8 mil Btu | 2.9 mil Btu | 0.6 mil Btu | | | |
| | Residential Energy Cost (\$) | \$678 mil | -\$21 mil | \$677 mil | -\$22 mil | \$698 mil | | \$688 mil | -\$11 mil | \$708 mil | \$31 mil | \$10 mil | | | |
| | Residential Energy Cost per HH (\$) | \$2,826 | -\$87 | \$2,822 | -\$91 | \$2,913 | \$0 | \$2,868 | -\$45 | \$2,954 | \$128 | \$41 | WATER | WATER | |
| | Water Water Consumed (AF) | 93,261 AF | -2.988 AF | 93,501 AF | -2,747 AF | 96,249 AF | | 94,912 AF | -1,337 AF | 97.484 AF | 4,223 AF | 1,235 AF | Enough water saved annually to serve over 7,500 homes. | Enough water saved annually to serve over 10,400 homes. | |
| | Water Cost (\$) | \$135 mil | -\$3.5 mil | \$135 mil | -\$3.6 mil | \$138 mil | | \$136 mil | -\$1.7 mil | \$140 mil | \$5.1 mil | \$1.6 mil | Enough Nater saved dimidally to serve over 7,550 homes. | Enough nater sorted dimidding to serve over 10, 100 homes. | |
| | Water Consumed per HH (gal) | 126,747 gal | -4,061 gal | 127,074 gal | -3,734 gal | 130,808 gal | gal | 128,991 gal | -1,817 gal | 132,486 gal | 5,739 gal | 1,678 gal | | | |
| | Residential Water Cost per HH (\$) | \$562 | -\$14 | \$561 | -\$15 | \$576 | \$0 | \$569 | -\$7 | \$583 | \$21 | \$7 | | | |
| | Water Consumed for new households only (AF) Water use per new HH (gal) | 29,127 AF 103,367 gal | -2,988 AF -10,605 gal | 29,367 AF 104,221 gal | -2,747 AF -9,750 gal | 32,115 AF 113,971 gal | AF gal | 30,778 AF 109,227 gal | -1,337 AF -4,745 gal | 33,349 AF 118,353 gal | 4,223 AF 14,986 gal | 1,235 AF 4,382 gal | Over 10,000 gallons saved per new household. | Nearly 15,000 gallons saved per new household. | |
| | Water cost for new HH (2011\$) | \$38,437,223 | -\$3,453,608 | \$38,306,989 | -\$3,583,842 | \$41,890,831 | \$0 | \$40,146,823 | -4,745 gai -\$1,744,008 | \$43,501,350 | \$5,064,127 | \$1,610,519 | Over 10,000 gallons saved per new nousehold. | rearry 15,000 gailoris saved per new nouseriold. | |
| | Water cost per new HH (2011\$) | \$419 | -\$38 | \$417 | -\$39 | \$456 | \$0 | \$437 | -\$19 | \$474 | \$55 | \$18 | | | |
| | Infrastructure (Cumulative results to 2035) | | | | | | | | | | | | INFRASTRUCTURE COSTS | INFRASTRUCTURE COSTS | |
| | Cumulative Infrastructure Cost (2011S) | \$1.27 B | -\$143 M | \$1.33 B | -\$80 M | \$1.41 B | \$0 M | \$1.35 B | -\$63 M | \$1.38 B | \$115 M | -\$27 M | \$162 million less in local spending to build, operate, and maintain infrastructure by | \$115 million less in local spending to build, operate, and maintain infrastructure by | |
| | Cumulative Operations & Maintenance Cost (2011\$) | \$0.30 B | -\$20 M | \$0.31 B | -\$17 M | \$0.32 B | \$0 M | \$0.31 B | -\$11 M | \$0.32 B | \$13 M | -\$7 M | 2035. | 2035. | |
| | Cumulative Revenues (\$) | \$4.62 B | \$109 M | \$4.48 B | -\$27 M | \$4.51 B | \$0 M | \$4.60 B | \$90 M | \$4.34 B | -\$278 M | -\$169 M | | | |

| esno G | eneral Plan Update Scenarios - CONFID | ENTIAL DRAFT | | | | | | | | | | | |
|----------|---|--|--------------------|--------------------------------------|--------------------|---------------------------------------|--------------------|-------------------------------|--------------------|-------------------------------|--------------------|--|------------------------------|
| | 5-Apr-12 | | | | | | | | | | | | |
| \vdash | 2035 Annual Results | A. Revitalization, Infill, and Tra within SOI | insit Corridors | B. Growth Area Developmen within SOI | nt and Infill | C. Trend, Expands to | soı | D. Hybrid of A, B, a | and C | E. BIA Scenario | | ASSUMPTIONS | Rapid Fire calcu baseline |
| 4 | | Result | Diff from Alt C | Result | Diff from Alt C | Result | Diff from Alt C | Result | Diff from Alt C | Result | Diff from Alt C | (Same assumptions used for all scenarios) | 2005 |
| | SCENARIO | Α | | В | | С | | D | | E | | | Baseline |
| | End-State Total Population, 2035 | 734,533 | | 734,533 | | 734,533 | | 734,533 | | 734,533 | | Growth projections assume 79,000 new units and 125,000 new jobs (by 2035, relative to | 454,736 |
| | End-State Total Households, 2035 | 239,763 | | 239,763 | | 239,763 | | 239,763 | | 239,763 | | 2010) for ALL scenarios. | 147,945 |
| | Total Greenhouse Gas (GHG) Emissions | | | | | | | | | | | | |
| | Total Emissions (Transportation Combustion and Buildings) (MMT) | 2.17 MMT | -8% | 2.22 MMT | -6% | 2.36 MMT | 0% | 2.23 MMT | -6% | 2.41 MMT | 2% | Transportation GHG emissions include CO2-equivalent (CO2e) from passenger vehicle fuel combustion. Building emissions include CO2e from residential and commercial electricity and | 2.4 MM |
| 1 | ICE Fuel Combustion Emissions (MMT) Building Emissions (Residential and Commercial) | 0.96 MMT 1.21 MMT | -15% -2% | 1.01 MMT 1.21 MMT | -9% -2% | 1.12 MMT 1.24 MMT | 0% 0% | 1.01 MMT 1.22 MMT | -10% -2% | 1.13 MMT 1.28 MMT | 1% 3% | natural gas use. | 1.1 MM 1.3 MM |
| - | | 1.21 WIWI | -276 | 1.21 IVIIVII | -276 | 1.24 IVIIVI I | 0% | 1.22 IVIIVI | -276 | 1.26 IVIIVI I | 370 | | 1.5 IVIIVI |
| | Household Costs Fuel and auto, energy, and water costs (2011\$) | \$11,520 | -11% | \$11,997 | -8% | \$13,002 | 0% | \$12.007 | -8% | \$13,143 | 1% | Household costs reflect averages for ALL households (including existing households), | |
| Z | Household fuel and auto costs (2011\$) | \$8,132 | -15% | \$8,614 | -9% | \$9,513 | 0% | \$8,570 | -10% | \$9,607 | 1% | expressed in 2011 dollars. Specific cost assumptions are further detailed below. | |
| | Household energy and water costs (2011\$) | \$3,387 | -3% | \$3,383 | -3% | \$3,489 | 0% | \$3,437 | -1% | \$3,536 | 1% | | |
| Ш | Land Consumption | | | | | · · · · · · · · · · · · · · · · · · · | | | | · | | | |
| 2 | Greenfield Land Consumed, Gross (sq mi) | 21.7 sq mi | -31% | 25.1 sq mi | -21% | 31.7 sq mi | 0% | 25.7 sq mi | -19% | 34.2 sq mi | 8% | Land consumption estimated based on per-capita rates, which vary by Land Development | |
| | Greenfield Land Consumed, Gross (ac) | 13,909 ac | -31% | 16,055 ac | -21% | 20,263 ac | 0% | 16,435 ac | -19% | 21,860 ac | 8% | Category and are calibrated to past development patterns. | |
| I | Transportation | | | | | | | | | | | | |
| | VMT (miles) | 3.01 B mi | -15% | 3.19 B mi | -9% | 3.52 B mi | 0% | 3.17 B mi | -10% | 3.56 B mi | 1% | * All transportation results assume modest improvements in fuel economy (27 mpg by 2035), | 2.3 B n |
| Z | VMT per HH | 12,562 mi | -15% | 13,306 mi | -9% | 14,695 mi | 0% | 13,238 mi | -10% | 14,840 mi | 1% | and LCFS-based emissions (A 10% reduction, or ~17.3 lbs CO2e/gal by 2035). | 15,498 |
| | VMT per Capita | 4,100 mi | -15% | 4,343 mi | -9% | 4,797 mi | 0% | 4,321 mi | -10% | 4,844 mi | 1% | | 5,042 r |
| | Fuel Consumed (gal) | 121.7 M gal | -15% | 128.9 M gal | -9% | 142.4 M gal | 0% | 128.3 M gal | -10% | 143.8 M gal | 1% | | 0.1 B g |
| | Fuel Cost (2011\$) | \$0.97 B | -15% | \$1.03 B | -9% | \$1.14 B | 0% 0% | \$1.03 B | -10% | \$1.15 B | 1% | Fuel cost assumed to reach \$8 per gallon by 2035. (2011\$) | |
| | Auto Ownership, Maintenance, and Additional Costs (2011\$) ICE Fuel Combustion Emissions (MMT) | \$0.98 B 0.96 MMT | -15% -15% | \$1.03 B 1.01 MMT | -9% -9% | \$1.14 B 1.12 MMT | 0% | \$1.03 B 1.01 MMT | -10% -10% | \$1.15 B 1.13 MMT | 1% 1% | Auto ownership and maintenance costs assumed to be \$0.32 per mile (2011\$). | 1 MM |
| | ICE Fuel Combustion Emissions (MINIT) | 2,871 lbs | -15% | 3,041 lbs | -9% | 3,358 lbs | 0% | 3,025 lbs | -10% | 3,392 lbs | 1% | | 5,120 |
| | Criteria Pollutant Emissions (tons) | 3,717 tons | -15% | 3,937 tons | -9% | 4.347 tons | 0% | 3,917 tons | -10% | 4,391 tons | 1% | Per-mile criteria pollutant emissions rates from EMFAC 2007. | 87.578 to |
| | Public Health | , | | ., | | , | | ., | | , | | | |
| | Annual Health Incidences | | -15% | 5,391 | -9% | 5,954 | 0% | 5,364 | -10% | 6,013 | 1% | Estimated based on tons of criteria pollutants emitted. Health incidence and valuation | |
| | Annual Health Costs (2011\$) | \$81,251,611 | -15% | \$86,061,987 | -9% | \$95,044,721 | 0% | \$85,624,000 | -10% | \$95,988,034 | 1% | assumptions developed by TIAX for the American Lung Association (Oct 2011). | |
| | Building Energy | | | | | | | | | | | | |
| | Residential Electricity Consumed (kWh) | 1,578 GWh | -3% | 1,576 GWh | -3% | 1,633 GWh | 0% | 1,605 GWh | -2% | 1,658 GWh | 2% | Residential electricity and natural gas use for new units based on CEC RASS data by residential | |
| | Residential Natural Gas Consumed (therms) | 83,402,521 thm | -2% | 83,354,420 thm | -2% | 84,683,320 thm | 0% | 84,044,368 thm | -1% | 85,279,833 thm | 1% | type, for Fresno's climate zone (Title 24 zone 13). Average energy use for existing units (7,860 kWh/unit and 420 thm/unit) based on normalized monthly usage for the City of Fresno, as | |
| | Residential Energy Consumed (Btu) | 13.7 tril Btu 7.8 tril Btu | -2% -3% | 13.7 tril Btu 7.9 tril Btu | -2% -3% | 14.0 tril Btu 8.1 tril Btu | 0% 0% | 13.9 tril Btu 7.8 tril Btu | -1% -3% | 14.2 tril Btu 8.1 tril Btu | 1% 0% | reported by PG&E to the COF. | |
| | Commercial Energy Consumed (Btu) Total Energy Consumed (Btu) | 21.6 tril Btu | -2% | 21.6 tril Btu | -2% | 22.1 tril Btu | 0% | 21.7 tril Btu | -2% | 22.3 tril Btu | 1% | Commercial energy use for new and existing buildings based on average energy intensity of all | |
| | Residential Building Emissions (MMT) | 0.76 MMT | -2% | 0.76 MMT | -2% | 0.78 MMT | 0% | 0.77 MMT | -1% | 0.79 MMT | 1% | commercial floorspace in Fresno's climate zone (CEC Forecasting Zone 3) - 12.8 kWh/sq ft; | |
| | Commercial Building Emissions (MMT) | 0.45 MMT | -3% | 0.45 MMT | -3% | 0.46 MMT | 0% | 0.45 MMT | -3% | 0.46 MMT | 0% | 0.27 thm/sq ft. Note that commercial energy use does not comprise all "non-residential" use, as it does not include industrial energy use. | |
| | Residential Electricity per HH (kWh) | 6,583 kWh | -3% | 6,573 kWh | -3% | 6,809 kWh | 0% | 6,693 kWh | -2% | 6,915 kWh | 2% | Electricity emissions: 0.45 lbs/kWh in 2035 per Ssutainable Fresno Division based on input | |
| | Residential Natural Gas per HH (therms) | 348 thm | -2% | 348 thm | -2% | 353 thm | 0% | 351 thm | -1% | 356 thm | 1% | from PG&E. Natural gas emissions: 11.7 lbs/therm state average (no change, since emissions | |
| | Residential Energy Use per HH (Btu) | 90.0 mil Btu | -2% | 90.0 mil Btu | -2% | 92.2 mil Btu | 0% | 90.6 mil Btu | -2% | 92.8 mil Btu | 1% | are constant). | |
| | Residential Energy Cost (\$) | \$678 mil | -3% | \$677 mil | -3% -3% | \$698 mil | 0% 0% | \$688 mil | -2% -2% | \$708 mil | 1% 1% | Electricity cost: \$0.35 in 2035; natural gas cost: \$1.50 per therm by 2035 (2011\$). Per Sustainable Fresno Division, March 2012. | |
| | Residential Energy Cost per HH (\$) | \$2,826 | -3% | \$2,822 | -3% | \$2,913 | 0% | \$2,868 | -Z% | \$2,954 | 1% | Sustainable Fresho Division, Walter 2012. | |
| | Water Consumed (AF) | 02.204.45 | -3% | 02 504 45 | -3% | 06.240.45 | 0% | 04.043.45 | -1% | 97,484 AF | 1% | Water use based on guarges per socite indeer water use rates and outdoor rates beauti | |
| | Water Consumed (AF) Water Cost (\$) | 93,261 AF \$135 mil | -3% -3% | 93,501 AF \$135 mil | -3% -3% | 96,249 AF \$138 mil | 0% | 94,912 AF \$136 mil | -1% -1% | 97,484 AF \$140 mil | 1% 1% | Water use based on average per-capita indoor water use rates, and outdoor rates based on Fresno's evapotranspiration zone and assumptions about lot size and irrigated area. | |
| | Water Consumed per HH (gal) | \$135 mii 126,747 gal | -3% | \$135 mii 127,074 gal | -3% | \$138 mii 130,808 gal | 0% | \$136 mii 128,991 gal | -1% | \$140 mii 132,486 gal | 1% | | |
| | Residential Water Cost per HH (\$) | \$562 | -3% | \$561 | -3% | \$576 | 0% | \$569 | -1% | \$583 | 1% | Water cost: \$1,500 per acre-foot (2011\$), per Sustainable Fresno Division. | |
| | Water Consumed for new households only (AF) | 29,127 AF | -9% | 29,367 AF | -9% | 32,115 AF | 0% | 30,778 AF | -4% | 33,349 AF | 4% | | |
| | Water use per new HH (gal) | 103,367 gal | -9% | 104,221 gal | -9% | 113,971 gal | 0% | 109,227 gal | -4% | 118,353 gal | 4% | | |
| | Water cost per for new HH (2011\$) | \$38,437,223 | -8% | \$38,306,989 | -9% | \$41,890,831 | 0% | \$40,146,823 | -4% | \$43,501,350 | 4% | | |
| | Water cost per new HH (2011\$) | \$419 | -8% | \$417 | -9% | \$456 | 0% | \$437 | -4% | \$474 | 4% | | |
| | Infrastructure (Cumulative results to 2035) | 4.4 | | 4.44- | | 4 | | 4 | | 4.44 | | Infrastructure costs are one-time costs that include the construction of streets, parks, water, and wastewater infrastructure. Operations and maintenance costs are ongoing costs that are | |
| | Cumulative Infrastructure Cost (2011S) | \$1.27 B | -10% | \$1.33 B | -6% | \$1.41 B | 0% | \$1.35 B | -4% | \$1.38 B | -2% | incurred annually to maintain that infrastructure. Costs vary by dwelling unit type. Totals | |
| | Cumulative Operations & Maintenance Cost (2011\$) | \$0.30 B | -6% | \$0.31 B | -5% | \$0.32 B | 0% | \$0.31 B | -3% | \$0.32 B | -2% | reflect cumulative costs to 2035. | |
| | Cumulative Revenues (2011\$) | \$4.62 B | 2% | \$4.48 B | -1% | \$4.51 B | | \$4.60 B | 2% | \$4.34 B | -4% | | |

Note: Express health impacts and costs only as DIFFERENCES between scenarios (e.g., Compared to Scenario C, Scenario A would result in \$13.8 million less in health costs in 2035).